

NAME:

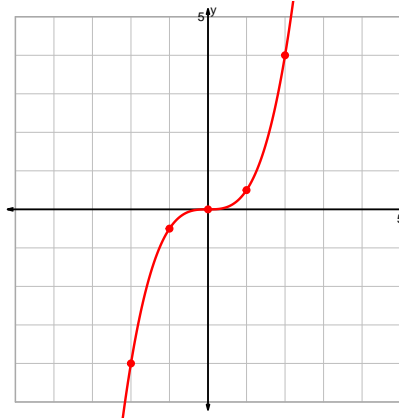
DATE:

Unit-2 Reduced Mastery Assessment (version 311)

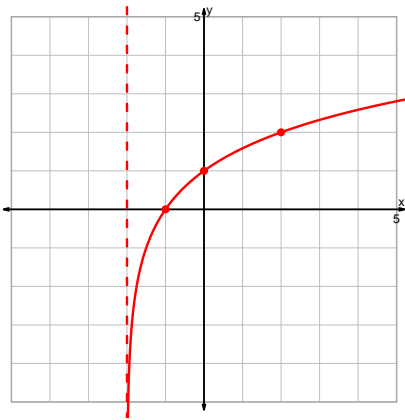
Question 1 (20 points)

Graph the equations accurately. For each integer-integer point on the parent, indicate the corresponding point precisely. Also, with dashed lines, indicate any asymptotes.

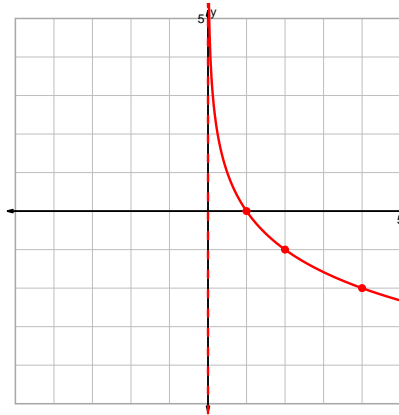
$$y = \frac{x^3}{2}$$



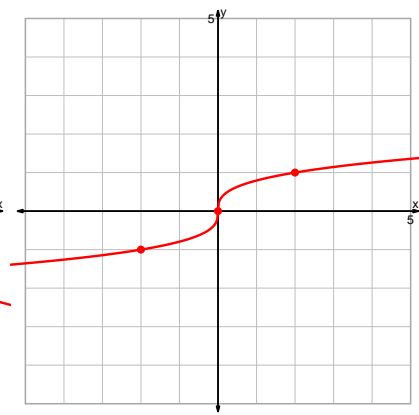
$$y = \log_2(x+2)$$



$$y = -\log_2(x)$$

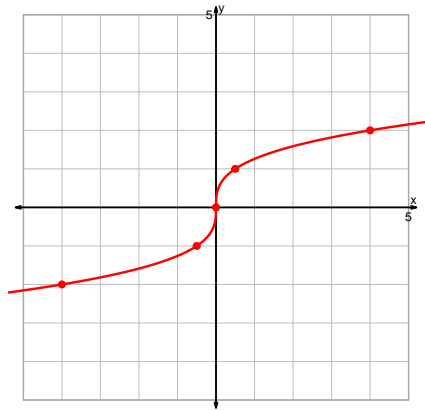


$$y = \sqrt[3]{\frac{x}{2}}$$

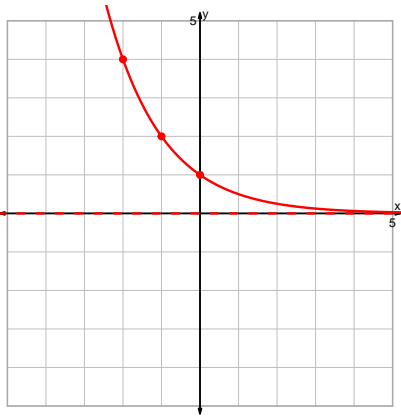


Question 2 continued...

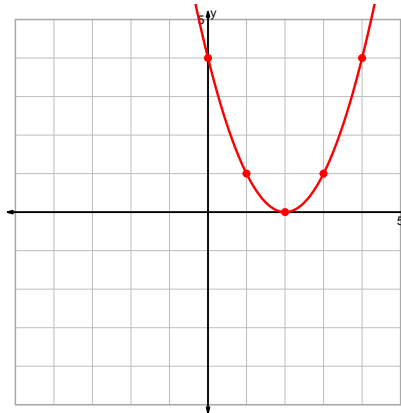
$$y = \sqrt[3]{2x}$$



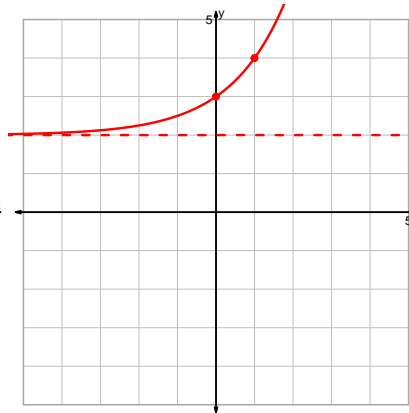
$$y = 2^{-x}$$



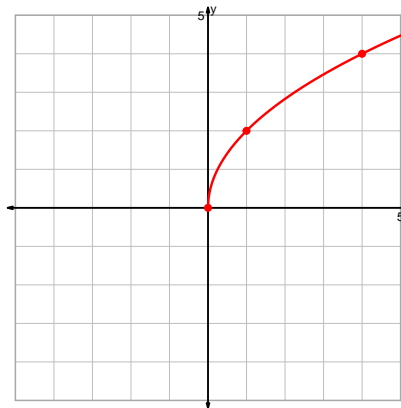
$$y = (x-2)^2$$



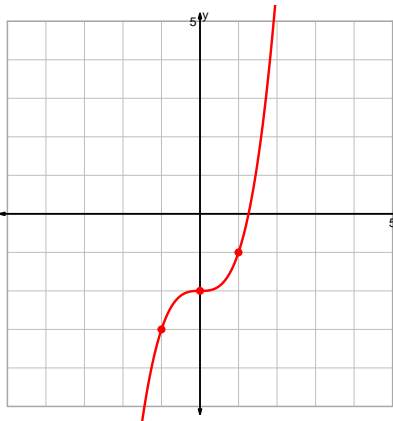
$$y = 2^x + 2$$



$$y = 2 \cdot \sqrt{x}$$

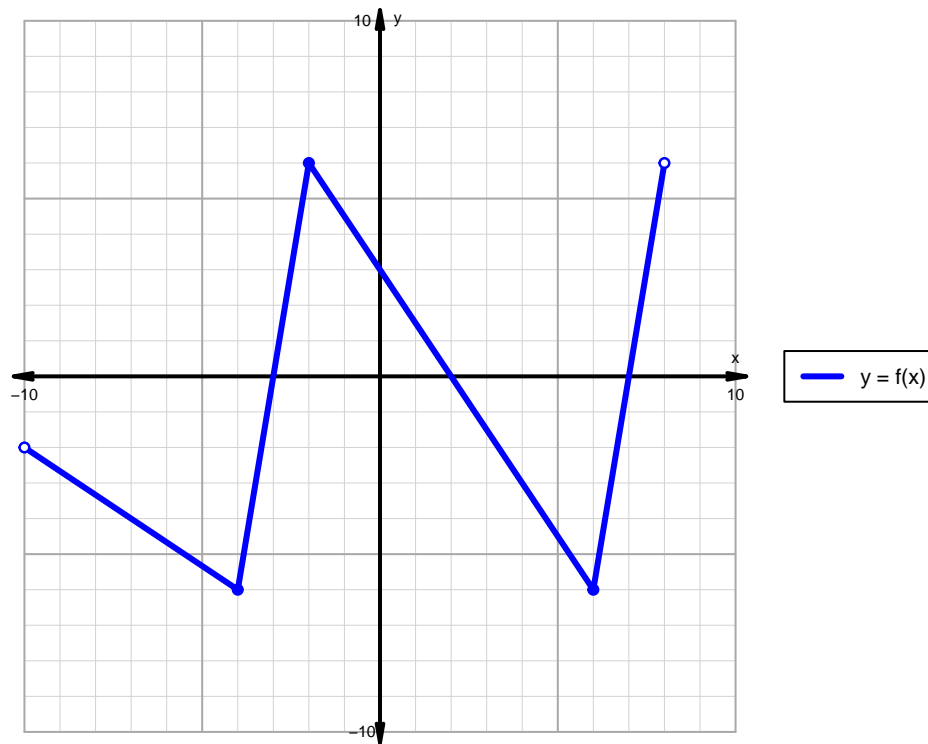


$$y = x^3 - 2$$



Question 2 (20 points)

A function is graphed below.



Indicate the following intervals using interval notation.

Feature	Where
Positive	$(-3, 2) \cup (7, 8)$
Negative	$(-10, -3) \cup (2, 7)$
Increasing	$(-4, -2) \cup (6, 8)$
Decreasing	$(-10, -4) \cup (-2, 6)$
Domain	$(-10, 8)$
Range	$(-6, 6)$